

Sheet 1

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known Application Number 10/816,152 Filing Date 03/31/2004 First Named Inventor Karl Brown Art Unit 2836 Examiner Name Unknown Attomey Docket Number | 008325 USA/CPI/LINER/BARRIER/LP

	U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		<sup>US-</sup> 5,886,863	03-23-1999	Nagasaki et al.			
		<sup>US-</sup> 6,490,144	12-03-2002	Narendrnath et al.			
		<sup>US-</sup> 5,665,260	09-09-1997	Kawada et al.			
		<sup>US-</sup> 5,858,100	01-12-1999	Maeda et al.			
		<sup>US-</sup> 5,958,813	09-28-1999	Aida et al.			
		<sup>US-</sup> 6,048,434	04-11-2000	Tamura et al.			
		<sup>US-</sup> 6,072,685	06-06-2000	Herchen et al.			
		<sup>US-</sup> 4,645,218	02-24-1987	Ooshio et al			
		<sup>US-</sup> 5,155,652	10-13-1992	Logan et al.			
		<sup>US-</sup> 5,191,506	03-02-1993	Logan et al.			
		<sup>US-</sup> 5,280,156	01-18-1994	Niori et al.			
		<sup>US-</sup> 5,376,213	12-27-1994	Ueda et al.			
		<sup>US-</sup> 5,478,429	12-26-1995	Komino et al.			
		us- 5,529,657	06-25-1996	Ishii			
		us- 5,581,874	12-10-1996	Aoki et al.			
		<sup>US-</sup> 5,600,530	02-04-1997	Smith .			
		<sup>US-</sup> 5,606,484	02-25-1997	Kawada et al.			
		<sup>US-</sup> 5,625,526	04-29-1997	Watanabe et al.			
		<sup>US-</sup> 5,671,116	09-23-1997	Husain			

Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	1
		JP-09045757A	02-14-1997	Kuchimachi	Abstract only	
		JP-10270540A	10-09-1998	Nippon Cement Co. Ltd.	Abstract only	
		JP-11176919A	07-02-1999	Sony Corp.	Abstract only	
		JP-11163109A	06-18-1999	Kyocera Corp.	Abstract only	
					_	Г

Examiner		Date	4/24/2008
Signature	/Lucy Thomas/	Considered	4/24/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.usplo.gov">www.usplo.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) en epplication. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet 2

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/816,152			
Filing Date	03/31/2004			
First Named Inventor	Karl Brown			
Art Unit	2836			
Examiner Name	Unknown			
Attorney Docket Number	008325 USA/CPI/LINER/BARRIER/LP			

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 5,737,178	04-07-1998	Herchen	
		<sup>US-</sup> 5,745,331	04-28-1998	Shamouilian et al.	
		<sup>US-</sup> 5,527,584	06-18-1996	Darfler et al.	
		<sup>US-</sup> 5,827,585	10-27-1998	Giannetti	
		<sup>US-</sup> 5,818,693	10-06-1998	Garner et al.	
		<sup>US-</sup> 5,949,650	09-07-1999	Bulante et al.	
		<sup>US-</sup> 5,978,202	11-02-1999	Wadensweiler et al.	
		US- 5,886,864	03-23-1999	Dvorsky	
		<sup>US-</sup> 5,460,684	10-24-1995	Saeki et al.	
		<sup>US-</sup> 6,094,334	07-25-2000	Bedi et al.	
		US-			

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
		* **				
						_

Examiner	Lucy Thomas/	-	Date	4/24/2000
Signature	/ Lady Thomas	•	Considered	4/24/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

SP 27 200 Significant Action A

PTO/SB/08B (04-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449/PTO Application Number 10/816,152 **Filing Date** INFORMATION DISCLOSURE March 31, 2004 STATEMENT BY APPLICANT First Named Inventor Karl Brown Art Unit 2836 (Use as many sheets as necessary) **Examiner Name** Unknown Attorney Docket Number Sheet 3 008325 USA/CPI/LINER/BARRIER/LP of

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		M CUBED TECHNOLOGIES, INC., "Beams and Structural Members", Beam Note, Rev. 03, 7/25/2001, retrieved at Internet address www.mmmt.com/Beam.pdf	
		M CUBED TECHNOLOGIES, INC., "Si Wafer Chucks", retrieved at Internet address www.mmmt.com/chuck.pdf 11/16/2003	
		M CUBED TECHNOLOGIES, INC., "Overview of M Cubed Technologies' Materials Processes", Materials Overview, Rev. 02, 080403, retrieved at Internet address www.mmmt.com/Technotes/MaterialsOverview.pdf 12/06/2003	
		M CUBED TECHNOLOGIES, INC., "Preform Infiltrated Silicon Carbide Particulate-Reinforced Aluminum (AISiC) Metal Matrix Composites", Infiltrated MMC", Rev. 01, 11/2/99, retrived at Internet address www.mmmt.com/Technotes/InfilMMCNote.pdf	
		M CUBED TECHNOLOGIES, INC., "Cast Silicon Carbide Particulate-Reinforced Aluminum (Al/SiC) Metal Matrix Composites", Cast MMC, Rev. 02, 05/08/2001, retrived at Internet address www.mmmt.com/Technotes/CastMMCNote.pdf	
		M CUBED TECHNOLOGIES, INC., "Reaction Bonded Silicon Carbide Ceramics", Reaction Bonded SiC, Rev. 02, 11/18/1999, retrived at Internet address www.mmmt.com/Technotes/SiCNote.pdf	
		M CUBED TECHNOLOGIES, INC., "Aluminum-Toughened SiC Ceramic", Al-Toughened SiC, Rev. 05, 08/04/03, retrived at Internet address www.mmmt.com/Technotes/ToughenedSiCNote.pdf	
		KARANDIKAR ET AL, "Complex, net-shape ceramic composite components for structural, lithography, mirror and armor applications", Presented at the 27th Annual Cocoa Beach Conference and Exposition, Cocoa Beach, FL, 2003 by M Cubed Technologies, Inc., retrived at Internet address www.mmmt.com/Publications/MCubedCocaaBeach03.adf	
		IBM Technical Disclosure Bulletin, Volume 31, No. 1, June 1988, pages 462-464	
		·	

Examiner	/Lucy Thomas/	Date	1/01/0005
Signature	/Lucy Thomas/	Considered	4/24/2008

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.